

| L Number | Hits | Search Text | DB  | Time stamp          |
|----------|------|-------------|---|---------------------|
| 1        | 3    | "6321693"   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/06/30<br>08:13 |
| 2        | 6    | "6071098"   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/06/30<br>08:19 |
| 3        | 1    |             | USPAT   | 2004/06/30<br>08:13 |
| 4        | 1    |             | USPAT   | 2004/06/30<br>08:13 |
| 5        | 1    |             | USPAT   | 2004/06/30<br>08:14 |
| 6        | 1    |             | USPAT   | 2004/06/30<br>08:14 |
| 7        | 1    |             | USPAT   | 2004/06/30<br>08:15 |
| 8        | 1    |             | USPAT   | 2004/06/30<br>08:15 |
| 9        | 1    |             | USPAT   | 2004/06/30<br>08:15 |
| 10       | 1    |             | USPAT   | 2004/06/30<br>08:15 |
| 11       | 1    |             | USPAT   | 2004/06/30<br>08:16 |
| 12       | 1    |             | USPAT   | 2004/06/30<br>08:16 |
| 13       | 1    |             | USPAT   | 2004/06/30<br>08:16 |
| 14       | 1    |             | USPAT   | 2004/06/30<br>08:17 |
| 15       | 1    |             | USPAT   | 2004/06/30<br>08:17 |
| 16       | 1    |             | USPAT   | 2004/06/30<br>08:17 |
| 17       | 1    |             | USPAT   | 2004/06/30<br>08:17 |
| 18       | 1    |             | USPAT   | 2004/06/30<br>08:18 |
| 19       | 1    |             | USPAT   | 2004/06/30<br>08:18 |
| 20       | 1    |             | USPAT   | 2004/06/30<br>08:18 |
| 21       | 1    |             | USPAT   | 2004/06/30<br>08:19 |
| 22       | 1    |             | USPAT   | 2004/06/30<br>08:19 |
| 23       | 1    |             | USPAT   | 2004/06/30<br>08:19 |

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| 24 | 4   | "5404850"            | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/06/30<br>08:20 |
| 25 | 4   | "5233954"            | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/06/30<br>08:21 |
| 26 | 3   | "4679535"            | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/06/30<br>08:23 |
| 27 | 1   |                      | USPAT   | 2004/06/30<br>08:22 |
| 28 | 1   |                      | USPAT   | 2004/06/30<br>08:22 |
| 29 | 4   | "4431751"            | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/06/30<br>08:23 |
| 30 | 4   | "4434751"            | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/06/30<br>08:26 |
| 31 | 6   | "4086879"            | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/06/30<br>08:27 |
| 32 | 8   | "3702746"            | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/06/30<br>08:40 |
| 33 | 161 | 123/245.ccls.        | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/06/30<br>09:36 |
| 34 | 636 | 418/33-37.ccls.ccls. | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/06/30<br>12:53 |
| 35 | 83  | 123/18A.ccls.        | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/06/30<br>09:36 |

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| 36 | 636   | 418/33-37.ccls.ccls. and ((slide or sliding or slid or slides slider) near3 ( valves or valve))  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/06/30<br>13:35 |
| 37 | 636   | 418/33-37.ccls.ccls. and ((slide or sliding or slid or slides slider) near ( valves or valve))   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/06/30<br>13:00 |
| 38 | 7     | 418/33-37.ccls. and ((slide or sliding or slid or slides slider) near ( valves or valve))  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/06/30<br>13:00 |
| 39 | 8     | 418/33-37.ccls. and ((slide or sliding or slid or slides slider) near3 ( valves or valve))   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/06/30<br>13:04 |
| 40 | 62    | 418/33-37.ccls. and ((slide or sliding or slid or slides slider) and ( valves or valve))   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/06/30<br>13:14 |
| 41 | 51    | (123/18A.ccls. or 123/245.ccls.) and ((slide or sliding or slid or slides slider) and ( valves or valve))                              | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/06/30<br>13:23 |
| 42 | 11    | (123/18A.ccls. or 123/245.ccls.) and ((slide or sliding or slid or slides slider) near3 ( valves or valve))                            | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/06/30<br>13:16 |
| 43 | 1     |  | USPAT   | 2004/06/30<br>13:21 |
| 44 | 1     |  | USPAT   | 2004/06/30<br>13:21 |
| 45 | 1     |  | USPAT   | 2004/06/30<br>13:21 |
| 46 | 1     |  | USPAT   | 2004/06/30<br>13:22 |
| 47 | 1     |  | USPAT   | 2004/06/30<br>13:22 |
| 48 | 1     |  | USPAT   | 2004/06/30<br>13:22 |
| 49 | 1     |  | USPAT   | 2004/06/30<br>13:23 |
| 50 | 21102 | (ring or rings) and (inner and outer) and ((slide or sliding or slid or slides slider) and ( valves or valve)) and (piston or pistons) | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/06/30<br>13:24 |

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| 51 | 524   | ("inner ring" or "inner rings") and ("outer ring" or "outer rings") and ((slide or sliding or slid or slides slider) and ( valves or valve)) and (piston or pistons)  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/06/30<br>13:24 |
| 52 | 62    | ("inner ring" or "inner rings") and ("outer ring" or "outer rings") and ((slide or sliding or slid or slides slider) near3 ( valves or valve)) and (piston or pistons)  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/06/30<br>13:25 |
| 53 | 17251 | ((slide or sliding or slid or slides slider) near3 ( valves or valve)) and (piston or pistons)  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/06/30<br>13:25 |
| 54 | 7925  | ((slide or sliding or slid or slides slider) near3 ( valves or valve)) and (piston or pistons) and (rotary or rotate or rotation or rotational or rotationally or rotated or rotating)  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/06/30<br>13:26 |
| 55 | 4518  | ((slide or sliding or slid or slides slider) near ( valves or valve)) and (piston or pistons) and (rotary or rotate or rotation or rotational or rotationally or rotated or rotating)   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/06/30<br>13:27 |
| 56 | 95    | ((slide or sliding or slid or slides slider) near ( valves or valve)) and (piston or pistons) and (rotary or rotate or rotation or rotational or rotationally or rotated or rotating) and (torus or toroid or toroidal or toroidally)                                     | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/06/30<br>13:30 |
| 57 | 3     | (torus or toroid or toroidal or toroidally) and ((slide or sliding or slid or slides slider) near ( valves or valve)) and (piston or pistons) and (rotary or rotate or rotation or rotational or rotationally or rotated or rotating) and ("inner ring" and "outer ring") | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/06/30<br>13:31 |
| 58 | 95    | (torus or toroid or toroidal or toroidally) and ((slide or sliding or slid or slides slider) near ( valves or valve)) and (piston or pistons) and (rotary or rotate or rotation or rotational or rotationally or rotated or rotating)                                     | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/06/30<br>13:32 |
| 59 | 58    | (torus or toroid or toroidal or toroidally) and ((slide or sliding or slid or slides slider) near ( valves or valve)) and (piston or pistons) and (rotary or rotate or rotation or rotational or rotationally or rotated or rotating) and inner and outer                 | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/06/30<br>14:03 |
| 60 | 636   | 418/33-37.ccls.ccls. and (cool or cooling or cooler or cooled or cools) and (lubricate or libricant or lubricated or lubricating)   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/06/30<br>13:35 |
| 61 | 37    | (418/33-37.ccls. or /245.ccls. or /18A.ccls.) and (cool or cooling or cooler or cooled or cools) and (lubricate or libricant or lubricated or lubricating)  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/06/30<br>13:36 |

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| 62 | 48   | (418/33-37.ccls. or /245.ccls. or /18A.ccls.) and (cool or cooling or cooler or cooled or cools) and (lubricate or lubricant or lubricated or lubricating)       | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/06/30<br>14:06 |
| 63 | 63   | (418/33-37.ccls. or 123/245.ccls. or 123/18A.ccls.) and (cool or cooling or cooler or cooled or cools) and (lubricate or lubricant or lubricated or lubricating) | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/06/30<br>13:36 |
| 64 | 37   | (torus or toroid or toroidal or toroidally) and ("gas flow" near3 valve) and (piston or pistons)   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/06/30<br>14:04 |
| 65 | 7    | (torus or toroid or toroidal or toroidally) and ("gas flow" near valve) and (piston or pistons)  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/06/30<br>14:05 |
| 67 | 1375 | (torus or toroid or toroidal or toroidally) and (valve with (piston or pistons))   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/06/30<br>14:05 |
| 66 | 220  | (torus or toroid or toroidal or toroidally) and (valve near (piston or pistons))   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/06/30<br>14:05 |
| 68 | 5    | (418/33-37.ccls. or /245.ccls. or /18A.ccls.) and (torus or toroid or toroidal or toroidally) and (valve near (piston or pistons))                               | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/06/30<br>14:11 |
| 69 | 16   | "3645239"  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/06/30<br>14:09 |
| 70 | 12   | "1329625"  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/06/30<br>14:09 |
| 71 | 40   | (418/33-37.ccls. or /245.ccls. or /18A.ccls.) and (torus or toroid or toroidal or toroidally) and (valve or valves) and (piston or pistons)                      | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/06/30<br>14:26 |
| 72 | 1    | (418/33-37.ccls. or /245.ccls. or /18A.ccls.) and (carbon near5 material)  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/06/30<br>14:26 |

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| 73 | 3  | (418/33-37.ccls. or 123/245.ccls. or 123/18A.ccls.) and (carbon near5 material)  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/06/30<br>14:27 |
| 74 | 24 | (418/33-37.ccls. or 123/200-249.ccls. or 123/18A.ccls.) and (carbon near5 material)  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/06/30<br>14:27 |
| 75 | 6  | (418/\$.ccls. or 123/200-249.ccls. or 123/18A.ccls.) and (carbon near5 material) and (torus or toroid or toroidal or toroidally) | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/06/30<br>14:29 |
| 76 | 0  | (418/33-37.ccls. or 123/200-249.ccls. or 123/18A.ccls.) and (carbon near5 material) and (carbon near3 (piston or pistons))       | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/06/30<br>14:30 |
| 77 | 1  | (418/\$.ccls. or 123/200-249.ccls. or 123/18A.ccls.) and (carbon near5 material) and (carbon near3 (piston or pistons))          | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/06/30<br>14:30 |